

Title (en)
ROTARY PISTON ENGINE

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Application
EP 87830200 A 19870529

Priority
IT 2070186 A 19860606

Abstract (en)
[origin: EP0250372A1] The present invention relates to a rotating endothermic engine, with means for varying the compression ratio even during the operation, comprising a containing cylinder forming variable volume chambers, defined by the cylinder inner wall and piston side walls, the cross-section of which has substantially the shape of a circle sector. During the operation, the pistons are rotated with an uneven circular motion, by means of a mechanism including a crank, having an eccentric axis with respect to that of the containing cylinder, and small coupling rods coupling the arms of the crank and the end portions of small shafts passing through the pistons. The compression ratio is changed by means of a further mechanism able of changing the eccentricity value of the crank axis with respect to the cylinder axis. Preferably each engine comprises two pluralities of chambers, each of which is provided with a rotating motion inside a respective cylinder. The construction of the assembly affords the possibility of obtaining a perfect balancing, both static and dynamic, of the masses driven in each cylinder, the fitting of a same mechanism to very different operation conditions, and a very high specific power with respect to that which may be obtained from the presently commercially available engines.

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